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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/511,924	10/18/2004	David Johnson .	128905-1002 (HAM 830004)	8925
62067	7590 11/15/2006		EXAM	INER
HUNTSMAN ADVANCED MATERIALS AMERICAS INC.			FIGUEROA, JOHN J	
LEGAL DEPA 10003 WOOD	KTMENT LOCH FOREST DRIVE		ART UNIT	PAPER NUMBER
	ANDS, TX 77380		. 1712	
			DATE MAILED: 11/15/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		10/511,924	JOHNSON ET AL.	
		Examiner	Art Unit	
		John J. Figueroa	1712	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence addre	ess
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply within the set or extended period for reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this comm D (35 U.S.C. § 133).	·
Status				
2a)	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		erits is
Dispositi	on of Claims			
5)□ 6)⊠ 7)□	Claim(s) 30-49 is/are pending in the application 4a) Of the above claim(s) 45-49 is/are withdraw Claim(s) is/are allowed. Claim(s) 30-44 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.		·
Applicati	on Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Example.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR	, ,
Priority u	ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Sta	age
Attachmen	He)			
1) Notic 2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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DETAILED ACTION

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Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions that are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 30-44, drawn to a photocurable composition.

Group II, claims 45-49, drawn to a method for producing a solidified 3-D object.

- 2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature is the photocurable composition containing the photocurable monomer reactive particles and photoinitiator but is neither novel nor has an inventive step as evidenced by United States Patent Application Publication Number 2002/0132872 A1 to Yamamura, hereinafter 'Yamamura' (discussed below).
- 3. During a telephone conversation with Mr. Robert Holthus on September 23, 2006 a provisional election was made with traverse to prosecute the invention of Group I, claims 30-44. Affirmation of this election must be made by applicant in replying to this

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Office action. Claims 45-49 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 30-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamamura.

Yamamura discloses a photocurable resin composition for photofabrication of three-dimensional objects, that exhibits superior photocurability to various light sources such as a laser and a UV lamp and that can produce a cured three-dimensional object

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exhibiting superior folding endurance, said photocurable resin composition comprising: 5-80 parts by weight of an oxetane compound; 5-80 parts by weight of an epoxy compound; a photoacid generator; elastomer particles with an average particle diameter of 10-700 nm (0.01 to 0.7 μm); a polyol compound; an ethylenically unsaturated monomer, and 0-10 parts by weight of a radical photopolymerization initiator. (Abstract; page 1, [0001]); claim 1 on page 14; page 7, [0078]; page 10, [0105] to [0108]; page 10, [0113])

Yamamura further discloses the oxetane component to be crosslinked and contain a linear or branched polysiloxane group that can be a dimethylsiloxane (Page 2, [0021]; page 3, [0033] to page 4, [0036]); the epoxy to be, e.g., an epoxycyclohexyl group or a glycidyl group-containing epoxide and further be polymerized (Page 5, [0051] to page 6, [0060]); the photoacid generator to initiate cationic polymerization and can be an onium salt (page 6, [0062] to page 7, [0070]); the elastomer particles to be core-shell type particles that can comprise, e.g. a polybutadiene or a methacrylate copolymer, that can be crosslinked (page 7, [0073] to page 8, [0076]; and the ethylenically unsaturated monomer to comprise, e.g., a methacrylate copolymer (page 8, [0092] to page 9, [0098].

Yamamura also discloses that the photcurable composition can be produced by mixing and selectively irradiating said composition by various means (such as a laser beam or focused ray converged by a lens or mirror, or instead using a mask) to form the polymer matrix. (Page 10, [0116] to [0117) Because Yamamura and the instant claims encompass the same reactive particles and photocurable resin composition comprising thereof, then the composition disclosed by Yamamura and that encompassed by the

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instant claims must inherently possess the same physical properties, such as the reactive particles reacting completely to form chemical bonds to a formed polymer matrix.

Thus, the instant claims are anticipated by Yamamura.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John J. Figueroa whose telephone number is (571) 272-8916. The examiner can normally be reached on Mon-Thurs & alt. Fri 8:00-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

RANDY GULAKOWSKI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

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JJF/RAG